

Report

on the

Administration

of the

District Water Works Bept.

or the year 1347 Fash-(1938 A.D.)

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Proceedings of the Hon'ble Members of the Water Board Water Board in their 33rd meeting held on 14th June 1939

(8th Amardad 1348 F.) at the State Executive Council Hall, at 10-00 a.m.

PRESENT:

- 1. Mr. R. M. Crofton, I.C.S.,

 Director-General and Secretary, Revenue Department,—In the Chair.
- 2. Mr. W. V. Grigson, I.C.S., Special Officer, Revenue Department.
- 3. Mr. Liakatullah Khan, H.C.S., Financial Secretary.
- 4. Mr. Ahmad Mirza, Chief Engineer and Secretary, P.W.D.
- 5. Dr. H. Hyder Ali Khan, f.R.C.S. (Edin.), Director, Medical and Public Health Department.
- 6. Mr. Syed Badruddin Hussain, H.C.S., Deputy Revenue Secretary.

Sir Theodore Tasker, C.I.E., O.B.E., I.C.S., Revenue Member, and Nawab Mahdi Yar Jung Bahadur, Finance Member, were engaged in a session of the Council at the time after forming the Board. Raja Shamraj Rajwant Bahadur was away from Hyderabad.

Messrs. Samiullah Shah, B.Sc. (Hons.) (Manchester), M.I.E. (India), M. INST. C.E. (London), Special Engineer, District Water Works, and C. C. Paul, O.B.E., M.I.C.E., Special Engineer, Local Funds Department, attended the meeting.

ITEM No. 16/1939.—Administration Report of the District Water Works for the year 1347 F.

<u>REVIEW.</u>

The Administration Report was forwarded by the Special Engineer, District Water Works, on the 14th Ardibehisht 1348 F.

- 1. Control and Establishment.—After his appointment as Chief Engineer Mr. Ahmad Mirza, Special Engineer, District Water Works, handed over charge of the department on 29th Azur 1347 F., to Mr. Samiullah Shah who was the Principal of the Osmania Engineering College, Hyderabad-Deccan. The latter held charge of the department throughout the year.
- Mr. Samiullah Shah also held charge of the Well Sinking Department and of the Local Funds Department in his capacity as Superintending Engineer. Later on Mr. C. C. Paul, Special Engineer, was entrusted with the Local Fund works on 19th Dai 1347 F.

Mr. Sri Hari Ram a senior Supervisor was promoted to the newly-created post of the Sub-Engineer on the Special Survey Party which was sanctioned by the Water Board (Resolution No. 280, dated 2-5-1347 F.), for completing the investigation of towns taken on the Special Programme for expediting the completion of the water supply and drainage works.

The scale of Establishment maintained in the District Water Works in 1347 F., is shown in appendix No. 2, and of the Establishment of the Special Survey Party is shown in appendix No. 2 (a).

- 2. Expenditure.—Establishment—Control and Direction.
- (a) The Establishment charges of the office of the Special Engineer and of the investigation and construction subdivisions are compared with the expenditure on Works as shown below; the permissible ratio in the P.W.D. being 22½ per cent.:—

	1847 F.	1846 F.	1845 F.	1844 F.
Establishment	Rs. 85,120	Rs. 65,324	Rs. 90,681	Rs. 79,858
Works Total	11,08,019	5,68,494 6,83,818	5,92,780 6,83,461	4,86,687 5,66,545
Ratio between the Establishment charges and the Works, p.c	7.58%	11.45%,	15.29%	16.4 %

(b) The expenditure on direction and control on account of the combined establishments for the District Water Works in the offices of the Special Engineer, District Water Works, the Chief Engineer, P.W.D., the Examiner of Accounts, P.W.D., and the Water Board Branch of the Revenue Secretariat, is compared below with the total outturn of work:—

			1347 F.	1846 F.	1845 F.	1844 F.
Expend	iture-combir establishme		Rs.	Rs. 82,381	Rs.	Rs. 94,490
Do	Works	•••	11,08,019	5,68,494	5,92,780	4,86,687
	Total	• •	12,14,974	6,50,875	6,98,988	5,81,177
Ratio or to wo	f establishme orks	ent 	9.56%	14.49%	19.92%	19.4%

The ratio fixed according to the P.W.D. standard is $24\frac{1}{2}$ per cent.

The details of the above expenditure are shown in appendices No. 3-5.

The total expenditure on the construction of water supply and drainage schemes from the commencement of the department in 1338 F., to the end of 1347 F., is Rs. 58,61,147-11-0\%. The details are explained in the appendix No. 6, and in the graph attached to this Report.

The total expenditure under the head of Non-recurring grants to the end of 1347 F., was Rs. 25,547 out of the allotment of Rs. 30,000. The details are shown in the appendix No. 7.

- 3. Sanction of fresh Projects in 1347 F.
- 1. The Bhima scheme for Gulbarga Rs. 8,65,000 (WB. Res. No. 260).
- 2. The Water Supply Scheme for Nizamabad Rs. 6,30,000 (WB. Res. No. 301).
- 3. The Drainage Scheme for Nizamabad Rs. 1,40,500 (WB. Res. No. 188).

- 4. The Water Supply Scheme for Tuljapur Rs. 2,32,000 (WB. Res. No. 298).
- 5. The Drainage Scheme for Tuljapur Rs. 60,000 (WB. Res. No. 299).

Total ..19,27,500

- 6. The electricity scheme for Tuljapur costing Rs. 37,000 was also sanctioned by the Water Board, Resolution No. 298.
 - 4. Investigation of fresh Projects in 1347 F.
 - (a) Detailed Surveys and Investigations.
 - 1. The Nizamabad Water Supply Scheme.
 - 2. The Sedam Drainage Scheme.
 - 3. The Mahboobnagar Water Supply Scheme.
 - 4. The Drainage Scheme of Mahboobnagar.
 - 5. The Khammamet Water Supply Scheme.
 - 6. Do Drainage Scheme.
 - 7. The Yadgir Water Supply Scheme.
 - 8. Do Drainage Scheme.
 - (b) Preliminary Surveys.
 - 1. The Water Supply for Chincholi town.
 - 2. Do Karimnagar town.
 - 3. Do Mominabad (revised).
 - 4. Do Bodhan (revised).

The details of all the schemes investigated from the inception of the department are shown in appendix No. 8.

- 5. The Water Supply and the Drainage Works completed and the maintenance of the towns controlled by the Special Engineer are:—
 - 1. Jalna.
 - 2. Aurangabad.
 - 3. Latur.
 - 4. Raichur.
 - 5. Nander.
 - 6. Seram.
 - 7. Manvi.

The details are shown in appendix No. 4.

The Special Engineer says that the completed works have been efficiently maintained and the inhabitants of these towns are supplied with wholesome water. The demand for protected water supply is growing day by day.

- 6. The Water Supply and Drainage Works in progress during the year 1347 F.
 - 1. The Water Supply Scheme of Warangal.
 - 2. The Drainage do do
 - 3. The remodelling of Gulbarga.
 - 4. The Drainage Scheme of Gulbarga.
 - 5. The Water Supply Scheme of Osmanabad.

In connection with drainage scheme of Warangal the scheme for the town improvement of the Matwada Section of the Warangal City costing Rs. 1,52,000 contributed by the Local Funds, was in progress.

The details of all the works in progress during the year 1347 F., are stated in the Administration Report—pages 12-16.

The Special Engineer reports that the year 1347 F. has been unique in the history of the District Water Works both on account of its wide-spread activities and considerable expenditure on works. This is the first time in the history of the District Water Works that the water supply and drainage schemes of three district towns, viz., Warangal, Gulbarga and Osmanabad were taken up simultaneously in spite of a very limited staff—page 17 of the Report.

The Special Engineer brings to the notice of Government that the staff of the department had as before performed their duties with zeal and enthusiasm during the year under report and deserve appreciation of their work,—page 18.

A copy of the Administration Report for 1347 F., submitted by the Special Engineer is forwarded for the perusal of the Hon'ble Members of the Water Board.

The Administration Report for the previous year, 1346 F., was considered by the Board and Resolution No. 307, was recorded after circulation.

Submitted for information of the Board.

NOTE BY THE DIRECTOR-GENERAL, REVENUE.

(Remarks).

The Special Engineer and his staff are to be congratulated on a year's work in which the progress and the magnitude of the work undertaken have been remarkable.

(Sd.) W. V. GRIGSON,

27-7-48 F.

S. O.

Order.

RESOLUTION No. 328.—RESOLVED THAT as recommended by the Director-General, Revenue, the appreciation of Government be communicated to the Special Engineer, and that the Administration Report be recorded.

(Sd.) W. V. GRIGSON,
for Director-General and Secretary,

Revenue Department.

SN. 13.

FN. 16/1348 F.

W. B. Br.

(Idi) M.P.R.

APPROVED.
(Sd.) AQEEL JUNG,
26-12-48 F.,
for Hon'ble the President,
State Executive Council.

Abstract of the Administration Report of the District Water Works Department for the year 1347 Fasli.

- 1. Date of inception of the department—1338 F.
- 2. Head of the department—Mr. Samiullah Shah as Special Engineer, District Water Works and Superintending Engineer, Well Sinking Department, in 1347 F.
- 3. Projects sanctioned during the year.

		Rs.
1.	Bheema Scheme for Gulbarga	8,65,000
	Nizamabad Water Supply Scheme	6,30,000
3.		1,40,500
4.	Tuljapur Water Supply Scheme	2,32,000
5.		60,000
	-	

Total amount sanctioned ... 19,27,500

Further a scheme for electrification of Tuljapur costing Rs. 37,000 was also sanctioned.

4. Investigation of Projects.

The following schemes were investigated and their detailed estimates framed:—

- 1. Nizamabad Water Supply Scheme which was sanctioned.
- 2. Seram Drainage Scheme.
- 3. Preliminary scheme of Chincholi Water Supply.
- 4. Preliminary scheme of Karimnagar Water Supply.
- 5. Mahbubnagar Water Supply Scheme.
- 6. Khammamet Water Supply Scheme.
- 5. Works completed and maintained in good running order.
 - 1. Jalna Water Supply and Drainage Schemes.
 - Aurangabad do do
 Latur do do
 Raichur do do
 Nander do do
 - 6. Manvi Water Supply Scheme.
 - 7. Seram Water Supply Scheme.

6.	Works in Progress.	Sanctioned Amount.
		Rs.
	1. Warangal Water Supply Scheme	13,00,000
	2. Do Drainage Scheme	3,90,000
	3. Matwada Town Improvement	
	Scheme	1,52,000
	4. Remodelling Scheme of Gulbarga	
	Water Works	3,66,000
	5. Gulbarga Drainage Scheme	2,35,000
	6. Osmanabad Water Supply Scheme.	1.00.000

Warangal Water Supply and Drainage Schemes and Osmanabad Water Supply Scheme are expected to be completed before the summer of 1348 F.

7. Expenditure.

During the year the total expenditure on works was Rs. 11,08,019-7-2% and that on establishment Rs. 1,06,954-8-6 and the combined expenditure on works and establishment was Rs. 12,14,973-15-8%. The total expenditure on construction of Water Supply and Drainage schemes from the inception of this department to the end of 1347 F. was Rs. 58,61,147-11-0%.

(Sd.) SAMIULLAH SHAH, 10-6-48 F. SPECIAL ENGINEER, District Water Works. Administration Report of the District Water Works
Department for the year 1347 Fasli.

1. Establishment.

Mr. Samiullah Shah took over charge of the duties of the Special Engineer, District Water Works, Superintending Engineer, Local Funds Department and Superintending Engineer, Well Sinking Department on 30th Azur 1347 F. (afternoon) from Mr. Mohamed Ahmad Mirza, Chief Engineer and Secretary to Government, P.W.D., who was looking after the above duties also till then. Later the charge of Superintending Engineer, Funds Department was handed over Mr. C. C. Paul on 19th Dai 1347 F., in pursuance of Government orders. Mr. Samiullah Shah continued as Special Engineer, District Water Works and Superintending Engineer, Well Sinking Department throughout the year. The movements of the Special Engineer for controlling and guiding the activities of the above departments during the year are shown in Appendix No. I. The sanctioned staff and that maintained in the office of the Special Engineer are shown in Appendix No. II.

The Water Board in its resolution No. 280, dated 2-5-1347 F., RESOLVED that a special Survey Party should be employed for two years in order to expedite the investigation and preparation of the detailed estimates for the water supply and drainage schemes of ten major towns. A sum of Rs. 28,000 annually was sanctioned for this and a Special Survey Party was formed on 1-7-1347 F. The sanctioned staff of the Special Survey Party and that maintained during the year are shown in Appendix No. II-a.—page 24.

2. Expenditure.

*

The total expenditure on establishment of this office inclusive of Special Survey Party was Rs. 85,119-9-10. The total outlay on Works was Rs. 11,08,019-7-2% and to this the Establishment charges bear a proportion of 7.68 per cent. The permissible establishment charges in the Public Works Department are 22½ per cent.

The total expenditure on the direction and control of the activities of the District Water Works Department amounted to Rs. 1,06,254-8-6 and this represents the cost of establishment maintained during the year in the offices of the Special Engineer, District Water Works, the Chief Engineer, P.W.D., the Examiner of Accounts, P.W.D. and the Water Board Branch of the Revenue Secretariat. The details of expenditure under the establishment head of the above offices and the respective percentages to the total outlay on works are tabulated below:—

Name of Office	establis	hm	ent	Percentage of expenditure on establishment to the outlay on works of Rs. 11,08,019- 7-2-4/6	Permissible	Remarks
1. Office of the Special Engineer, D. W. W 2. Office of the	85,119	9	10	7.68	$22rac{1}{2}$	
Chief Engineer, P. W. D 3. Office of the	6,508	12	0	0.58	1	
Examiner of Accounts, P. W. D. 4. Water Board	10,723	0	0	0.89	1	This is includ-
Branch of Revenue Secretariat.	4,603	2	8	0.41	• •	ed in the per- missible per- centage of
Total	1,06,954	8	6	9.56	241	C.E.'s Office.

The total expenditure on construction of water supply and drainage schemes from the inception of this department to the end of 1347 F., is Rs. 58,61,147-11-0%

Appendix No. III, shows the details of expenditure on the establishment of the above offices. Appendix No. IV, shows the details of expenditure on works. Appendix No. V, shows the combined expenditure on establishment and works incurred month by month. Appendix No. VI, shows the total expenditure on establishment and work incurred by the department from its inception to the end of 13247 F. The same has also been represented by a graph which gives at a glance an idea of the total ex-

penditure and percentages of expenditure on establishment to those of works,—page 43.

The total amount of non-recurring grant for the purchase of furniture, drawing and surveying instruments and office library, etc., was Rs. 30,000, out of which a sum of Rs. 25,547-2-3\% was spent by the end of 1347 F., leaving a balance of Rs. 4,352-13-8\%. Appendix No. VII, shows these details,—page 33.

3. Projects sanctioned during the year.

During the year the following projects were sanctioned by the Water Board:—

	Name of Work. Am	ount of sanctione Estimate.
		Rs.
1.	Bheema Scheme for Gulbarga	8,65,000
2.	Nizamabad Water Supply	• •
	Scheme	6,30,000
3.	Nizamabad Drainage Scheme	1,40,500
4.	Tuljapur Water Supply Scheme.	2,32,000
5 .	Do Drainage Scheme	60,000
	Total	19,27,500

Further a scheme for the electrification of Tuljapur costing Rs. 37,000, was also sanctioned.

4. Investigation of Projects.

Nizamabad Water Supply and Seram Drainage schemes were investigated and framed and after the approval of the Chief Engineer, P.W.D. were forwarded to the Revenue Secretary for sanction of the Water Board. The preliminary reports of the water supply schemes for Chincholi and Karimnagar were prepared and submitted to the Revenue Secretary. The revision of Mominabad and Bodhan water supply schemes was taken up.

The Special Survey Party has completed the investigation and detailed surveys of the water supply and drainage schemes for Mahbubnagar and Khammamet towns and started those of Yadgir. The proposals and detailed estimates have been framed and were under the scrutiny of this office.

Appendix No. VIII, shows the details of projects investigated, framed and submitted for sanction from the inception of this department to the end of 1347 F,—page 34.

5. Works completed.

The completed water works and drainage works of the following five major towns were controlled and maintained in good running order by this department:—

- 1. Jalna.
- 2. Aurangabad.
- 3. Latur.
- 4. Raichur.
- 5. Nander.

The expenditure on the above completed works against the amounts of sanctioned estimates are shown in Appendix No. 4.

Apart from the above works the department has constructed protected water supply schemes in small towns of Manvi and Seram. Seram water supply scheme was completed early in 1347 F. and was put into operation in the same year. These works were also maintained in good running order. The expenditure on Seram water supply scheme is also shown in Appendix No. 4,—page 28.

6. Works in progress.

The following schemes have been in progress during the year:—

1. Warangal Water Supply Scheme.

2. Do Drainage Scheme.

3. Matwada Town Improvement Scheme.

4. Remodelling Scheme of Gulbarga Water Works.

5. Gulbarga Drainage Scheme.

6. Osmanabad Water Supply Scheme.

The detailed progress of the above schemes is briefly described below:—

1. Warangal Water Supply Scheme.

This work was started in Aban 1345 F. During the year under report only repairs to the tank bund and closing of leakages, etc., were carried out. No work was done on the feeder channel as the handing over of this channel to this department by the Public Works Depart.

ment was under consideration. The whole of conduit which is about 7 miles was practically completed except a few finishing touches here and there and the line was under test. Regarding the filters, the mechanical parts were received, the civil works were under progress, the construction of mixing chamber was also under progress. Staff quarters were almost completed. Five miles of trunk main out of seven miles were completed. The masonry Service Reservoir at Nakalgutta was almost complete. The work of R. C. C. Service Reservoir at Matwada was given to the Hindustan Construction Co., and they have started the work. The whole of the distribution system, which is about 29 miles was almost completed. The Superintendent's office was completed in 1346 F., and at present the office of the Assistant Engineer in charge of these works is functioning in this building. In short the major portion of the works was completed and the whole scheme is expected to be completed before the summer of 1348 F.

The expenditure on the above works during the year under report was Rs. 5,38,389-5-6 and the total expenditure to the end of the year from the commencement of the works was Rs. 9,47,756-12-2% against the sanctioned amount of Rs. 13 lacs for the whole scheme. The detailed expenditure on various works against the sanctioned amounts allotted to them is shown in Appendix No. IX.

2. Warangal Drainage Scheme.

The total length of the proposed open type of drains in Hanamkonda is about 20 miles and those in Matwada is about 26 miles. The work in Hanamkonda locality was completed and a major portion of the work in Matwada was also completed. Along with the construction of drains the existing roads were widened and improved by removing all the unlawful encroachments. The work is in full swing.

The sanctioned amount for the drainage scheme is Rs. 3,90,000. The expenditure during the year was Rs. 1,41,071-9-7% and the total expenditure to the end of the year was Rs. 2,02,283-9-8%.

3. Matwada Town Improvement Scheme.

This scheme comprises of two parts. The first is the construction of a new dust-proof road of 4150 ft. long

across the slum area of Matwada connecting the Narsampet road to Warangal station road. A part of this road will be 40 ft. wide and the rest 60 ft. wide. The sanctioned amount for this scheme is Rs. 1,52,000 including compensation of land and construction of the road. The second part comprises of the acquisition of land 50 ft. wide for new shops on either side of the 60 ft. proposed road. The total cost of acquisition as worked out in details comes to Rs. 1,15,000.

The first part of this scheme was taken up during the year and the second part will be taken up on seeing the results of part first. The compensation of lands has been paid and all the houses have been acquired and the dismantling work was completed. Plots for auction were marked out. The construction of the road will be taken up when funds are available from the proceeds of the auction. The expenditure on these works was Rs. 1,43,623-10-7.

4. Remodelling Scheme of Gulbarga Water Works.

A protected water supply scheme for Gulbarga has been in existence for the last 20 years. The source of the supply is the Bhosga tank. Water is drawn from this tank by gravity and after filtration through slow sand filters it is distributed in the town.

Due to the expansion of the town and a few technical defects, the existing system has been found inadequate and is now proposed to be remodelled.

The work was commenced in Ardibehisht 1347 F., and good progress was maintained during the year. The distribution system was almost completed. The Superintendent's Office building and the Staff quarters were nearing completion. Adequate arrangements for the water supply to Aiwan Shahi and the Subedari were made.

The sanctioned amount for the scheme is Rs. 3,66,000. The expenditure during the year was Rs. 1,85,343-15-93%. The details are shown in Appendix No. X, page 40

5. The Bheema Scheme.

To guard against water famine in years of continued drought when the Bhosga tank would not be in a position to cope up with the demand and to create a source of water

supply that will supplement the Bhosga system at all times the Bheema scheme costing Rs. 8,65,000 was sanctioned.

The scheme aims at tapping the subsoil water of the Bheema river by sinking an infiltration gallery in its bed and pumping water with a pumping head of 563 ft. through a C. I. Rising main of about 16 miles.

During the year investigations were started for the selection of a suitable site for gallery. Two suitable sites, one near Chinnur (19½ miles from Gulbarga) and the other at Hagargudgi (17 miles from Gulbarga) were selected for carrying out the boring operations at the above sites in order to draw geological sections of the site to decide definitely about the location and design of the gallery and the Head Works. Borings at the above sites were taken in the month of Thir 1347 F. But on the representation of the Special Engineer to the Water Board further works of this scheme were withheld, so as to evolve a cheaper scheme for the supplementary supply to Gulbarga.

The expenditure incurred on the above works was Rs. 1,675-4-4\% which is shown in Appendix No. XI.

6. Experiments in Bhosga Surplus Nala.

As mentioned above, in order to evolve a cheaper scheme than Bheema and much nearer to Gulbarga, preliminary investigations for securing the required quantity of water were made and it was found that there was a possibility of tapping abundant quantity of subsoil water between the villages of Kapnur and Malagatti in the valley of the Bhosga surplus nala. Excavation of a trench was started in the bed of the nala near Malagatti village for taking the recuperation tests but on account of the unusual early advent of the rains the experiments had to be stopped on 22nd Thir. The expenditure incurred on these experiments was Rs. 276-8-6 which will be met from the anticipated savings of Remodelling scheme. On the representation of the Special Engineer, the Water Board decided to postpone the Bheema scheme for one year so that a cheaper scheme may be evolved and the above experiments may be carried out during the summer of 1348 F.

7. Gulbarga Drainage Scheme.

The total length of the proposed open type of drains is about 48 miles. The construction of the drains was also commenced along with the Remodelling scheme of Gulbarga Water Works in Khurdad 1347 F. The scheme had to be resurveyed and revised plans and detailed estimates had to be prepared as the original proposals were made about five years ago and since then the town had developed in several localities. The construction of drains in Station Bazaar was completed and that of New Gunj was started. Along with the construction of drains the formation of the existing roads were also improved. The works were in rapid progress during the year.

The sanctioned amount for the Drainage scheme is Rs. 2,35,000 and the expenditure incurred during the year Rs. 9,593-6-6.

8. Osmanabad Water Supply Scheme.

This is the third scheme of its type constructed for minor towns by this department, the first two being for Manvi and Seram. The amount of sanctioned estimate for this scheme is Rs. 1,00,000. This scheme is financed 50 per cent. from the Silver Jubilee funds collected by the public of Osmanabad and 50 per cent. from the subvention of Government.

The construction of the works of this scheme was started in Ardibehisht 1347 F. The work of the infiltration gallery and of the pump well was greatly hampered on account of the early monsoons. However they were almost completed by the end of the year and fixing of pumps and engines was also commenced. The Service Reservoir which is a R. C. C. elevated tank was nearing completion. The site selected for the elevated tank is by the side of the Club and it is proposed to lay out a garden all round, which when completed would serve the purpose of a public park and a beauty spot in the town. The distribution system was in rapid progress and nearing completion. The works were in full swing and are expected to be completed earlier than the summer of 1348 F.

The expenditure incurred during the year was Rs. 25,224-2-2. The details are shown in Appendix No. XII, page 42.

9. Maintenance of Water Works.

The statements of expenditure on this head during the year were not received in time after the verification of the respective District Treasury Offices and consequently they are now shown in the appendices 13-21.

During the year under report the maintenance of the water works of the following seven towns were under the technical control of the Special Engineer:—

- 1. Jalna.
- 2. Aurangabad.
- 3. Latur.
- 4. Raichur.
- 5. Gulbarga.
- 6. Nander.
- 7. Seram.

Seram water works were completed by the end of Aban 1345 F., and brought into commission in 1347 Fasli. All the above water works were maintained satisfactorily and the expenditure on maintenance kept at a minimum.

The progress of house connections during the year in the above towns has been shown in Appendix No. 13. The total and daily consumption of water during the year together with the consumption of Alum and Chlorine for sterilization of water with their respective average doses have been shown in Appendix No. 14 Appendices No. 15 to 21 show the cost of maintenance of the above water works and revenue realised from the commencement to the end of 1347 Fasli.

10. Concluding Remarks.

This department was established in the year 1338 Fasli. The year under report, therefore, is the 10th year of its life and within these ten years, five major towns, viz., Jalna, Aurangabad, Latur, Raichur and Nander have been provided with well-organised water supply and drainage schemes and two minor towns, viz., Manvi and Seram with protected water supply schemes. Next year it is expected that there will be an addition of one major town, Warangal and one minor town, Osmanabad, in the list of completed works.

The completed works have been efficiently maintained and the inhabitants of these towns are supplied with wholesome water. The demand for protected water supply is growing day by day.

The year 1347 F. has been unique in the history of District Water Works Department both on account of its widely spread activities and considerable expenditure on This is the first time in the history of District Water Works Department that the water supply and drainage schemes of three district towns, viz., Warangal Gulbarga and Osmanabad, were taken up simultaneously in spite of a very limited number of staff. The Warangal Water Supply and Drainage schemes and Osmanabad Water Supply scheme are expected to be completed before the summer of 1348 F. The works of Remodelling Gulbarga Water Works and Drainage schemes are in good progress. The expenditure during the year under report was almost double of that in 1346 F. and the percentage of expenditure on establishment to that on works was much less, i.e., only 9.56 per cent.

Acknowledgment of Services.

The staff of the District Water Works Department have as before performed their duties with zeal and enthusiasm during the year under report and deserve appreciation of their work.

(Sd.) SAMIULLAH SHAH,

10-6-48 F.

SPECIAL ENGINEER,

District Water Works.

APPENDIX No. 1.

Statement showing the movements of the Special Engineer, District Water Works Department during the year 1347 F.

Seri- al No.	Name	of month		No. of days in month	Working days in the month	No. of days spent on tour during the month
1	Azur			30	18	16
2	Dai	• •		29	19	14
3	Bahman			30	19	7
4	Isfandar			30	22	16
5	Farwardi			31	19	7
6	Ardibehisht	••		81	16	5
7	Khurdad			81	26	14
8	Thir	• •		81	22	15
9	Amardad]	31	26	15
10	Shehrewar	• •		81	26	14
11	Mehir			30	21	11
12	Aban	• •		30	18	7
		Total		865	252	141

Column No. 3, bears to column No. 1, 38.6 % Do do do 2, 56.0%

APPENDIX
Statement of the strength of the Office of the Special Engineer,

Seri-				STRE	ENGTH
al No.	Names	Designation	No. in each grade	Sanc- tioned	Main- tained
1	Syed Samiulla Shah, Esqr	Special Engineer	1	1	1
2	Mr. Mirza Mehdi Ali	Assistant	1	1	1
3	" R. G. Borgoankar	Sub-Engineer	1	3	ī
4	" Sri Hari Ram	10	1	1	_
5	"Ramasastri	1 - 1	2	3	8
в	" Sri Hari	,,	3	IJ	
7	" G.V.L.K. Nagabhushana Rac	Overseer	1	1	
8	" S. A. Saraf		2	11	1
9	" M.A. Manan	,,	8	> 5	8
10	" Vacant				
11	" Vacant			IJ	
12		Sub-Overse	1	1)	
18	"Balaji	,,	2		
14	" T. B. Sundaram	,,	3		
15	" K. S. N. Moorthy	,,	4		
16	" Mohamad Hussain	"	5		
17	" L. A. Saraf	,,	6	} 10	
18	"Olaganatham	",	7		
19 20	Vacant	// // // // // // // // // // // // //			
21	· ·	Tracer		11	
22	α	Convict		11	
23	n. J n	Copyist		11	
24	Mr. A. Thankara	Supdt.	1	ν,	1
25	A.C1 NT:	Accountant	i	1	i
26	M D Carrad	Clerk 80-125	1	1	1
27	,, Augustine	001	1	\ \ \ \ \ \	
28	" Pathy Ragu	1 "	2	2	2
29	, Rama Rao	., 60-1-70	î	۲ ۴	-
80	, Suryakoti	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2		
81	" Mohamad Ahmad	" "	3	5	5
32	" Dilawar Ali	27 29	4		
38	" Sagir Mirza	,, ,,	5		
84	" Bowen	,, 85-70	ĭ	1	
35	" Venkateshwarulu	,, ,,	2		
86	" Seetharamiah	" "	8		
87	"Shivlal	,, ,,	4	> 5	5
88	" Mehdi Husain	" "	5		
89	" Hyder Ali	,, ,,	6		
40	" Abdul Hasab	" "	ž		

No. 2.

District Water Works during the year 1347 F.

Appo	ointing autho	rity	Date of join- ing duties	Remarks
Resolution 2	No. 259 of W	7.B.D.	1-2-1347 F.	
		ed 10-8-42 F.	22-9-1342 F.	
Rev. Sect. 1		, 1-5-46 F.	22-5-1347 F.	
19		. 15-5-30 F.	15-9-1339 F.	Took charge of the duties
**	406/940 ,,	11-7-32 F.	15-3-1341 F.	of Sub-Engineer, Special
,,	126/3144 ,	, 7-3-45 F.	7-3-45 F.	Survey Party from fore-
٠,	129/42 ,		15-3-41 F.	noon of 1-7-1347 F.
,,		, 6-6-33 <u>F</u> .	15-8-42 F.	
**	208/3144 ,	, 9-4-47 F.	1-3-47 F.	
5.E.'s O.O. 1	No. 117 dated	l 27-9-1347 F.	6-9-1347 F.	
S.E.'s O.O.	No. 29	15-8-39 F.	14-9-1339 F.	
,,	26	17-7-41 F.	20-7-1341 F.	
"	24	11-7-42 F.	1-8-1342 F.	ł
, 53	41	2-12-45 F.	1-1-1346 F.	
,,	"	**	>>	
**	5	14-1-45 F.	1-1-45 F.	
,,	,,	11		
,,	,,	, ,,	• • •	
D C M	- 004/40 W	D TO I O K AN F	9-5-47 F.	'
Rev. Sect. N	0.204/42 W.	B.D/-8-5-47 F 1 10-5-46 F.	16-5-46 F.	
Day Sant N	o. 20/12 Gate	V.B.D/-3-6-47		
S.E.'s. O.O.	0, 200/4240 V	d 23-10-43 F.	1-11-43 F.	,
	18 ,,	8-3-45 F.	1-2-45 F.	
,,	22 ,,	12-7-42 F.	10-10-42 F.	
,,	1701,,	22-11-41 F.	15-11-41 F.	
**	43 ,,	23-10-43 F.	1-11-43 F.	
27 51	60 ,,	30-6-47 F.	1-7-47 F.	d/-30-6-47 F. from 1-7-47 F.
**	82 ,,	3-8-47 F.	1-8-47 F.	
, 77	13 ,,	17-1-45 F.	1-2-45 F.	1
وور العام ال	36 ,,	31-8-41 F.	1-7-41 F.	
10.00	8 ,,	4-1-45 F.	1-1-45 F	
	19 ,,	5-9-46 F.	1-9-46 F	
	8 ,	26-2-46 F.	1-2-46 F	
	4 ,,	9-3-47 F.	6-3-47 F	
**	3 ,,	4-1-45 F.	2-1-45 F	
	10 , 1 ,	1 , T , Y , I , T	4 ' ' ' '	18-5-47 F. do

APPENDIX
Statement of the strength of the Office of the Special Engineer

C			No.	STRE	NGTH
Seri- al No.	Names	Designation	in each grade	Sanc- tioned	Main- tained
41 42 43 44 45 46 47 48	Mr. Sayed Abid Hashim ,, Mujtaba Hussain ,, Solomon ,, Mhd. Mohiuddin ,, Rajaiah ,, Mohamad Ali Peons Lascars	Clerk 30-60 ,, ,, ,, ,, Sharoff Dafaidar	1 2 3 4 1 1 	1 10 30	1 10 30

No. 2.—(conlcd.)

District Water Works during the year 1847 F.

Appointing authority		Date of join- ing duties	Remarks
,, 19 ,, 2 ,, 35 ,, 2 ,, 27 ,, 1	4-1-45 F. 6-2-46 F. 5-9-46 F. 8-5-47 F. -11-46 F. -8-1929 A.D.	2-1-45 F. 1-2-46 F. 1-9-46 F. 18-5-47 F. 2-11-46 F. 7-8-38 F.	

APPENDIX No. 2-A

Statement of the Strength of the Special Survey Party during the year ending with 4ban 1847 F.

			STR	ENGTU		Date of
Srl. No.	Names	Designation	Sanc- tioned	Main- tained	Appointing Authority	joining duties
1	Mr. A. Siihari Ram	Sub-Engineer	1	1	Rev. Sect. L. No. 740/834 W.B. d/-9-9-47 F.	
2	., Abduliah Khan	Super visor	2	1	, 856/3347 W. B. d/-25-10-47 F.	
3	Vacant.	••		••	••	
4	,, Aftab Ali	Overscer	3	2	,. 740/3347 W.B. d/-9-9-47 F.	1-7-47 F.
5 6	"Suryanarayana Murty Vacunt	,,	••	••	,,	1-7-47 F.
7	,, Sirajullah	Sub-Overseer			.E.' O.O. No. 62 d/-30-6-47 k.	3-7-47 F.
8	" Mohamad Hancef .]] "			59, d/-30-6-17 F.	15-7-47 F.
9	", Abdul Hakeem Quayani	} ,,	5	3,	107, d/-25-8-47 F.	28-8-47 F.
10	Vacant	,,				
11.	Vacant				••	
12	Varant	Clerk on 45		· .		
13	Lascars		20	12	••	

APPENDS

Statement of expenditure on establishment of District Water Works Department

GINE	IAL EN	THE SPEC	OF	TICE	OFI		tin			xed	1			Pay of
ribu ons	Cont	Special charges	ncies	nge	Conti			moto T.A.	ce	A.ST 11.	allor		ıd	tive, ci ar menia
a. 14	Rs. 154		p. 10	a 4	Rs.	• p.		Rs. 425	р. 0	a. 0	Rs. 255	р. 3	a. 12	Rs. 3,083
8	428	••	1	3	43	5	0	994	0	0	305	4	2	4,282
4	131	••	6	11	110				0	0	280	0	8	1,755
14	412		7	12	528	8	4	86	0	0	280	7	1	4,303
12	848		6	0	840	1	0	705	0	0	297	8	3	7,285
			10	12	344	1	2	622	0	0	185	11	8	1,227
7	414		9	5	460	2	5	695	0	0	80	9	12	3,836
7	-414		2	0	846	5	1	784	0	0	240	6	18	4,932
7	420		0	0	327	8	10	488	0	0	305	1	1	5,329
7	420		9	12	8,017	11	3	983	0	0	250	0	5	4,974
7	420		0	15	330	10	7	255	8	9	82	0	18	2,842
9	707		10	10	2,248	6	8	1,410	0	0	485	5	15	9,492
8	4,769		2		8,010	9	0	7,895	3	9	2,994	6	1	58,246

Note: -- Charges on Special Survey Part

No. 3.

for the year ending with 1347 F.

DISTRICT WATER WORKS				KS				r the R, P.V			Office of the Examiner of		Water Board Branch of the Revenue Secretariat			Grand Total				
Rates rent		d	Tota	ıl		Salar ch allo	arg	е	Con	trib on	u-	Accor	int	•	and c	har	ge			
Rs. 175	a. 0	p. 0	Rs. 4,195	a. 3		Rs.	a. 	p.	Rs.	a.	p.	Rs. 893	a. 9	p.	Rs. 504	a. 0	p. 0	Rs. 5,592		p. 5
175	0	0	6,177	13	10	926	0	0	175	0	0	893	9	4	352	0	0	8,524	7	2
			2,277	7	6	400	0	0	87	8	0	898	9	4				3,658	8	10
175	0	0	5,786	0	10	-	٠.			• •		893	9	4	402	0	0	7,081	10	2
350	0	0	9,771	0	3	576	0	0	87	8	0	893	9	4	592	0	0	11,920	3	7
175	0	0	1,864	14	2	1,01	3 0	0	175	0	0	893	9	4				3,946	7	6
175	0	0	5,661	15	3	100	0	0		••		893	9	4	219	3	9	6,874	12	4
175	0	0	7,392	6	8	500	0	0	98	12	θ	893	9	4	352	0	0	9,231	12	0
175	0	0	6,990	3	4	500	0	0	98	12	0	893	9	4	332	0	0	8,809	8	. 8
175	0	0	9,820	13	3	500	0	0	93	.12	0	893	9	4	312	0	0	11,620	2	7
175	0	0	4,107	4	8	500	0	0	93	12	0	893	9	4	696	0	0	6,290	10	0
350	0	0	14,644	12	7	500	0	0	98	12	0	893	9	4	841	14	11	16,974	0	10
2,275	0	0	78,689 6,429			5,51	5 0	0	993	12	0	10,723	0	0	4,603	2	8	1,00,524	14	1
To	tal		85,119		10															

District Water Works , Rs. 6,429-10-5. Grand total = Rs. 1,06,954-8-6

APFENDIX No. 4.

Statement of expenditure on works of the District Water Works Department to the end of 1347 F.

		the end of Aban 1346 F.	during 1347 F.	the end of 1347 F.
Investigation, a Preliminary Survey Construction of Jalna Water Supply Harangabad Water Supply Latur Water Supply Raichur Water Supply Nander Water Supply Nander Water Supply Warangal Water Supply Drainage Drainage Remodelling Gulbarga Water Supply Construction Changing Media of Filters at Gulbarga Construction of Seram Water Supply Total	Rs. a. p. 8,93,000 0 0 1,92,000 0 0 3,55,000 0 0 1,45,00 0 0 1,45,00 0 0 1,63,796 13 10²/6 6,27,500 0 0 95,000 0 0 3,60,000 0 0 2,35,000 0 0 8,65,000 0 0 8,65,000 0 0 8,65,000 0 0 8,65,000 0 0 8,65,000 0 0 8,7,000 0 0 8,7,000 0 0 8,7,000 0 0 8,7,000 0 0	Rs. a. p. 6,636 10 4 8,91,810 9 95/6 1,91,126 14 9 95/6 2,06,104 0 63/6 7,34,918 14 53/6 1,44,031 8 22/6 1,48,428 8 22/6 1,63,748 0 04/6 5,01,402 12 22/6 6,1212 0 04/6 61,212 0 04/6 7 4,09,367 5 95/6 61,212 0 04/6 7 49,47,410 10 6		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
BE FEEL	a Water Supply Drainage a scheme nabad Water Supply liters at Gulbarga n Water Supply Total	pply 13, 22, 22, 22, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	pply 8,65,000 0 0 8,65,000 0 0 0 8,65,000 0 0 0 8,65,000 0 0 0 8,65,000 0 0 0 0 15,219 9 0 0 0 0 26,469 8 0 0 0 26,469 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	pply 8,65,000 0 0 8,65,000 0 0 0 8,65,000 0 0 0 8,65,000 0 0 0 87,000 0 0 0 26,469 8 7

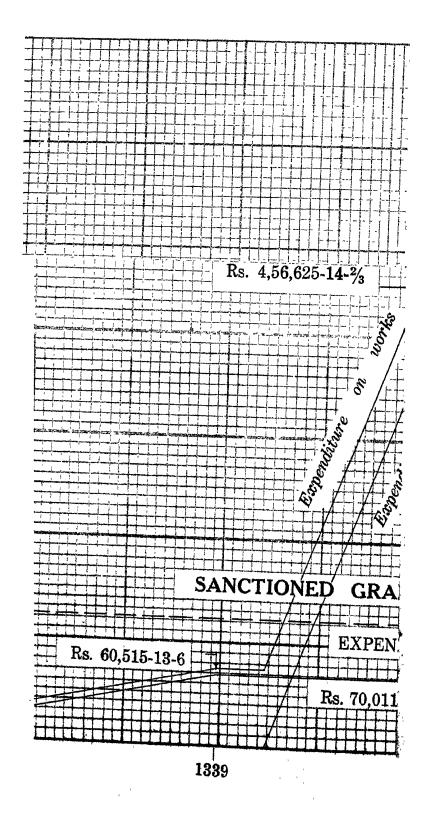
	-	Detail of expenditure on works during 1347 F. 9,13,787 0 66/6 Total B. F.	9,13,787 0 64/	Total B. F.	:	11,06,965 8 04/4	80	*/•
8	7	Expenditure on works	:	Expenditure L.F. & W.S. Dept	:	;		
	63	" maintenance	109 12 1	Amount under Misc. advances	:	1,052	10	∞
		Jalna maintenance —648 14 2		Corrected by E.O.A	:	,- 1	6	9
		Seram 758 10 8		Grand total		11,08,019	7 24/6	1/*2
		109 12 1						
	e	Expenditure on miscellaneous works	1,56,108 7 0					
		Matwada improvements 1,43,628 10 7 Drop water shutters of river 12,484 12 5						
		Suspense account Miscellaneous Advances	-809 13 24/s 87,820 1 7 ⁴ /s					
			11,06,965 8 04/6			¥		

APPENDIX No. 5.

Statement of expenditure on Establishment and Works of District Water Works

Department during the year 1347 F.

Seri-		EXPEND	ITURE ON	Total								
al No.	Name of month	Establishment	Works	Expenditure								
		Rs. a. p.	Rs. a. p.	Rs. a. p.								
1	Azur		$24,192 \ 11 \ \hat{1}1^2/_{6}$	14								
2	Dai	8,524 7 2	$2,214 9 0^{5}/_{6}$	6,309 14 11								
8	Bahman	3,658 8 10	$20,159 ext{ 1 } 5^4/_6$	23,817 10 84 _h								
4	Isfandar	7,081 10 2	85,170 11 41	92,252 5 6								
5	Farwardi	11,920 1 7	1,39,904 13 11	1,51,824 14 8								
6	Ardibehisht	3,946 7 6	$23,298\ 13\ 5^4/_6$	27,245 4 114								
7	Khurdad	6,874 12 4	98,595 0 9 ³ / ₆	1.05,469 13 18								
8	Thir	9,231 12 0	1.37,283 3 3	1,46,514 15 8								
9	Amardad	8,809 8 8	$55,239 0 3^3/_6$	64,048 8 113								
10	Shehrewar	11,620 2 7	$1,70,346$ 5 $3^3/_6$	1,81,966 7 103								
11	Mehir	6,290 10 0	31,934 12 8	38,225 6 8								
12	Aban	16,368 11 0	1,42,311 12 5	1,58,680 7 5								
	Total	99,919 8 3	9,26,221 12 114/6	10,26,614 5 24								
Work	Works and Establishment 10,26,141 5 24/6 Total O.S. Rs. 12,14,281 4 84											
Main	tenance	109 12 1	Amount corrected									
Matw	vada improvement	1,43,628 10 7	by E.O.A. under office contin-									
Susp	ense account	- 309 13 24	gencies & Misc Advance without	t								
Misce	ellaneous advances	37,320 1 74/6	intimation to this office	'								
	Sinking and Local nd, etc	1,052 5 8	Grand total	12,14,978 15 8								
Speci	ial Survey Party, etc.	6,429 10 5										
Reve	nue realised	12,14,867 0 4 ⁴ / ₆ - 85 11 8										
ì	· Grand Total	12,14,281 4 84	4									



	Detail	s of I Proje	Orainage ect			Total of D Pro
		11				12
3.			Rs.	a.	p.	Rs.
2/6	Jaina Jaina Aurangabad Jaina Aurangabad Ruchur Latur Jaina Aurangabad Raichur Latur		19,615 1,05,670 76,337 61,466 1,29,958 531 1,524 82,74 68,47,58,73	14 8 18 8 18 8 0 1 5 1 1 2 7 5 7	10	19,615 1,82,008 1,89,475
⁹ / ₁₂ 2 ² / ₆	Jaina Aurangabad Raichur Latur Warangal Latur Raichur Nanded Warangal		4,78 78,814 79,05 22 4,71 15,97 61,24	1 10 17 1 11 10	5 7 ³ / ₁ 9 ⁷ / ₁ 9 1 9 0 0 6 6 3 5 2	1,63,97
‡o‡	Raichur Nanded Warangal	• •	33,73 57,8		3 10 7 1 6 24	91,502

APPENDIX No. 7

Statement of Expenditure out of the non-recurring grant of Rs. 30,000 to the end of 1347 F.

*					!	ı		,	
Serti-		Particulars	Sanctioned amount	ned	Expenditute to the end 1846 F.	Expenditure to the end of 1846 F.	Expenditure dueing 1847 F.	Expenditure Total expendiducing ture to the end of 1847 F.	Balance available
7	Purchase of Furniture	Furniture	Rs. a. 5,988 10	ł	p. Hs. a. 8 4,708 0	a. p.	Rs. a. 389 6	p. Rs. a. p. 2 5,097 6 7	Rs. a. p. 891 4 1
69		Drawing and Mathematical instruments	18,000 0 0	0 0	15,865	15,865 15 114/6 2,319	2,319 1 4	17,685 1 34/6	314 14 82/6
60	Purchase of Maps an	f Maps and books	1,686 11	8 11	918	2	258 9 2	1,176 14 4	459 13 4
4	2	Typewriter	1.261	3.	611	4	•	611 5 4	650 0 0
70	£	Camp equipage	1,103	4	176	0 0	:	176 0 0	927 4 4
φ	•	Bicycles	810	0 0		277 15 7	*	277 15 7	82 0 5
1	ę,	Chemicals and apparatus for water analysis	1,700 0	0	622	7.	:	622 7 2	1,077 8 10
		Total	30,000	o.	22,680	1 74/6	30,000 ¢ 0 22,680 1 74/6 2,967 0 8	25,647 2 34/s	4,852 13 82/ ₆

APPENDIX No. 8.—(contd.)

Statement showing the names and cost of the Projects investigated from 1888 F. to end of 1847 F.—(contd.)

1				-		
Serri-	. Fasli year	Names of schemes	cost of Cost of schemes pre-schemes parted by the approved Special Engi-c.E.,	cost of schemes approved by the C.E., P.W.D.	Stage of schemes in the Water Board	Remarks
1			Hts.	Rs.		
	1848 F.	IIN		•	-	
56	1845 F.	Pata	10,000		Sauctioned.	
- 00	٤ :	Scheme Scheme Osmanabad Water Supply Scheme	1,0	1,00,000	Work sanctioned	Work to be started.
8 8		Remodelling of Gulbarga Water Works "	5,60,000	4.04,000	To be submitted to	:
22 23		Manyi Water Supply Scheme, Part I	18,000 30,000	: :	scrutiny. Sanctioned Awaiting sanction.	Work completed.
•		Total cost of Schemes for which detailed surveys were made and submitted	11.17,800	5,04,000		
	10. ************************************				100 IO	

			i. Work completed. ater tion	inthe 47 F.
		Ţ	Work sanctioned. Submitted for Water Board for sanction	since sanctioned in the month of Dai 1847 F.
: :::: ::::	·	::	::	:
1,17,990 18,000 55,000 1,45,000 85,000 1,87,000 80,000 2,92,800 86,000 1,24,500	12,20,090	23,37,890	8,65,000	9,02,000
Schemes for which preliminary reports have been submitted to the Revenue Secretary (1) Patan Water Supply Scheme (2) Qagazipura Water Supply No. 1 pumping Scheme No. 2 Gravity Scheme (8) Nalgonda Water Supply (6) Nalgonda Water Supply (6) Revised Scheme for Parbhani Water Supply (7) Asafabad Water Supply Scheme (8) Mominabad Water Supply Scheme (8) Mominabad Water Supply Scheme (9) Parsanath (10) Bhir (11) Bodhan	Total cost of Schemes for which pre- liminary reports were submitted	Total cost of Schemes for which surveys were made and preliminary renorts submitted in 1845 F.	Seram Water Supply Scheme Rhima Scheme, Gulbarga Water	Supply. Total value of Schemes prepared
	13	,	8 1846 F.	11

APPENDIX No. 10.

Statement showing the Expenditure incurred on remodelling Gulbarga Water Supply Scheme to the end of 4ban 1347 F.

Seri- al No.	Particular	'5	Estimated amount	Expenditure to the end of 1346 F. Aban	ing 1347			Total er ture to the Aban 18	en	d of
1	Head works		Rs. 7,000		Rs. 8	a. 3	p. 6	Rs 8	. a.	р. 6
2	Conduit		5,000		.,					
3	Filters		86,000					••		
4	Service reservoir		28,000							
5	Distribution system		1,86,000		1,65,114	10	10]	1,65,114	10	101
6	Telephone		5,000							
7	Office building and	quarters	14,000		6,640	3	82/6	6,640	3	82/6
8	Well supply to Aiw Subedari	ansbahi &	7,000		1,356	7	8	1,356	7	8
9	Petty establishment	t	8,600		1,736	10	8	1,786	10	8
10	Tools and plant		8,600		9,068	1	3	9,068	1	3
11	Contingencies	•••	10,800		812	6	2	812	6	2
12	Bhosga surplus stre	am	••,		276	8	6	276	8	6
18	Investigation and p	oreleminary	••		880	11	6	880	11	6
		Total	3,66,000		1,85,343	15	93/6	1,85,348	15	93/4

41
APPENDIX No. 11.

Statement showing the Expenditure incurred on Bhima Scheme to the end of Aban 1347F.

Seri- al No.	Particulars	Estimated amount	Expendi- ture to the end of Aban 1346 F.	Expenditure during the year 1847 F.	Total expendi- ture to the end of 1347 F.
1	Infiltration gallery	Rs. 36,000		R s. a. p.	Rs. a. p.
2	Pump tower and foot bridge	63,000	• •		• •
8	100 H.P. pump and oil engines	1,00,000	• •	•	
4	Rising main	6,25,000		• •	••
5	Contingencies]		1,669 1 44/6	1,669 1 44/6
6	Tools and plant	41,000	٠٠.	6 3 0	6 3 0
	Total	8,65,000		1,675 4 44/	1,675 4 44/6

APPENDIX No. 12.

Statement showing the Expenditure incurred on Osmanabad Water Supply Scheme to the end of Aban 1847 F.

Seri- al No.	Particulars	Estimated amount	Expenditure to the end of Aban 1347 F.	Expenditure during the year 1347 F.	Total expenditure to the end of Aban 1847 F.
1	Infiltration gallery	Rs. 11,000		Rs. a. p. 10,417 4 8	Rs. a. p. 10,417 4 8
2	Pump well	7,000		2,008 5 11	2,008 5 11
8	Pumping plant	6,600			••
4	Rising main	1,500			••
5	Staff quarters	8,000		• •	••
6	Balancing tank in- cluding lay-out & watchman-quarters	9,000		3,539 4 10	8,589 4 10
7	Distribution	40,000		5,612 7 0	5,612 7 0
8	Petty establishment	2,500		1,084 15 7	1,084 15 7
9	Tools and plant	2,500		2,501 10 7	2,501 10 7
10	Contingencies	8,000		65 12 0	65 12 0 ,
11	Chlorine plant	2,500		••	••
12	Gardens and gate	900		4 • • · · · · · · · · · · · · · · · · ·	
18	L.S. for unforeseen works	5,500	• • 1,	•	
,	Total	1,00,000	••	25,224 2 2	25,224 2 2

48

APPENDIX No. 13

Statement showing the Progress of House connections in the Towns during the yer 1847 Fsli.

Seri-	Name of			Sizes o	F Со	NNEC	TION	s		Total
No.	Water Works		Year	1"	3"	1"	11/2"	2"	3"	tion
			At the							
_	Yalaa		46 F.	916	10	2	•••			928
1	Jalna		47 F.	963	10	2				975
			46 F.	1,201	9	6	1			1,217
2	Aurangabad	1	47 F	1,271	10	6	1	1		1,289
		را	46 F.	966	5	8				974
3	Latur	1	47 F.	1,017	5	5				1,027
,			46 F.	951	8	6		3		968
4	Raichur	1	47 F.	986	7	6	1	4		1,004
		ſ	46 F.	1,187	58	28	2		3	1,223
. 5	Gulburga	1	47 F.	1,219	38	26	2		3	1,288
		٢	46 F.	625	9					634
	Nander	1	47 F.	740	13	1	1			753
,		۲	46 F.	10						10
	7 Serum	{	47 F.	140				.		. 140

44

APPENDIX No. 14.

Statement showing the Consumption of Water and Chemicals by the Towns during the year 1847 Fash.

Seri- al No.	Name of Water Works	Total quantity of waterconsum- ed by the Town during the year in gallons.	tion	Quantity of water consumed by the Town per head per day in gallons	ty of alum consum- ed dur- ing the year	Average dose of alum in grains per gallon of water	ty of chlorine	Average dose of chlorine in parts per million parts of water	Remarks
1	Jalna	281,380,700	31,000	20	25,662	0.68	1,020	0.47	
2	Aurangabad	29,64,85,000	30,000	27	275		1,136	••	Bleaching Powder.
8	Latur	10,11,91,424	31,000	19	12,260	0.69	356	0.35	rowder.
4	Raichur	15,20,20,384	28,000	14.9	36,417	1.38	407	0.27	
5	Gulburga	18,45,91,316	42,000	12	37,464	1.12	1,231		Bleaching
6	Nander	12,67,94,730	27,000	12.8	8,530	0.4	491	0.89	Powder.
7	Serum	1,39,66,000	5,500	6.9	.,		172	1.23	

APPENDIX No. 15.

Statement showing the cost of Maintenance of Jaina Waler Works and Revenue realised from commencement to the end of 1847 Pasli.

1		Expenditure	Expenditure incurred on	•	Contribution		ŗ	Balance to
No.	. Year and months	Establishment	Works and Abwab Muktasa	Loan instalment	towards de- preciation Fund	Total expenditure	realised	(6-5)
-	Q	85	4	70	9	۲	œ	a
				•	:	692 8 0	3,720 11 5	:
e	Azoor 1347 F.	1 423 8 0	: :	: :	:		œ	:
4 65	Rahman	, .	:	:	:		3,056 10 2	:
4		3 0 1	:	:	:	694 7 0	3,285 I 10	•
10	Farwardi	1,887 5 2	158 4 9	• ;	: :	4	. <u>.</u> .	::
9 5	int ,,		١.		::	15 1	3,228 1 7	:
- 0		2 =	958 5 7	:	:	0	0	:
0 0	Amardad	2	15	:	:	G.	0	•
9			63	:	:	63 (3,154 10 6	:
11	: 2	715 0			: 000	0 0 212	2	:
12	Aban "	1,655 1 10	785 12 2	17,528 0 0	- 1	2	•	•
	Total for the year 1847 F.	9,642 3 1	3,646 8 3	17,328 0 0	7,000 0 0	87,616 11 4	34,895 6 6	-2,721 4 10
	Total of previous years from the commence, ment of the works	48,180 14 0	10,942 14 1	36,854 0 0	:	99,927 12 1	115,53 7 5	15,615 11 4
	rand total to the end of							
	mencement	52,778 1 1	23,589 6 4	64,182 0 0	7,000 0 0 1,87,544	۳-	5 1,50,438 13 11	12,894 6 6

APPENDIX No. 16.

Statement showing the cost of Maintenance of Aurangabad Water Works and Revenue realised from the commencement to the end of 1847 Pasti.

Seri-		Expenditure	Expenditure incurred on		Contribution			Rolanda to
Z.	Year and month	Establishment	Works and Abwab Muktasa	Loan instalment	towards de- preciation Fund	Total expenditure	Revenue realised	credit of deficit (6-5)
-	84		89	•	70	v	*	60
~ (Axoor 1847 F.	0				1	•	:
29 ¢	Del.	1,852 12 0	85 1 0		:	e ;	229 1 0	:
4	Isfandar	00	- G	: :	:	087 1 4	9,746 4 0	:
10		c			• •	10	417 10 11	::
9 }	-	1 000		:	•		9	:
- 20	Thir	265 0	0 0 881		. :	458 14 11	2,030 1 10	:
۵		1,156 10	, _	::	: :	20	9	: :
9;	rar	678 12	0	:	:		-	::
7 ?	Meher ,,	0 0 0 0	387 8 7	:0000		es (10	:
1		# (No	٥	0 0 228'8	o o o	16,000 9 10	5,439 10 4	:
			23 0 8	_				
`	Total for the year 1847 F.	9,170 4 11	2,271 9 4	8,823 0 0	3,000 0 0	26,264 14 3*	29,124 0 6	2,859 2 3
,	Total of previous years from the commence- ment of the works	84,842 10 8	13,497 3 2	18,765 0 0	3,000 0 0	70,104 18 10	1,13,490 9 2	48,385 11 4
	Grand total to the end of 1847 F. from the com-	1	1					
	mencement	44,012 15 7	15,768 12 6	27,588 0 0	0 0 000'6	0 96,369 12 1 1	,42,614 9 8	46,244 18 7
		A		The second name of the second na	The same of the sa			

*Includes an amount of Rs. 3,000 towards Depreciation Charges for the year 1345 F.

APPENDIX No. 17.

Hand and an	Stutement statement of Latur Works and Recent realised from the commencement to the end of 1347 Fasti. Pear and months Pear and mont	Experiment of Latur IV Bayes on Establishment Abwab Muktasa 8 12 0 482 8 12 0 512 11 0 512 11 0 512 11 0 1,887 8 0 2,220 9 1,285 12 0 960 11 7 8 0 2,408 0 972 8 0 2,408 0 960 11 7 819 4 0 881 9 1,670 8 5 2,885 7	исе of Latur IVat INCURRED ON Works and Abwab Muktasa 2,220 9 4 524 10 6 2,468 0 5 297 0 0 861 9 5 2,886 7 5	Toni Instalment Depring to the instalment Depring to 10,00 118,180 0 0 10,00	Contribution towards Depreciation Fund 5 5 10,000 0 0	# the commenceme rependiture expenditure expension expen	Revenue realised 177 7 7 109 8 0 1,775 8 9 1,775 8 9 2,987 10 0 2,987 10 0 2,181 2 0 2,181 2 0 3,206 11 2 4,454 0 5 1	Balance to credit or deficit (8-5)
1	Total for the year 1847 F. Total of previous years from the commencement of the grown of the grown for the grown of the gr	10,460 8 10	8,257 11 1	13,180 0 0	10,000 0 0	41,848 8 11	29,997 11 6	4.915 18 6%
	Grand total to the end of 1847 F. from the commencement	' =	4	47,180 0	0	0 1,28,215 15 96/6 1,06,449	s	

APPENDIX No. 18.

Statement showing the cost of Maisterance of Raichur Water Works and Revenue realized from the commencement to the end of 1847 Fasti.

			-		ļ	1		1		1			ŧ				1_	***	1	i
j		Ехремог	FURE	Expenditure incurred on	0 0%				 Contribution	utio				-				Balance to	9	
o.	Year and months	Establishment	ent	Works and Abwab Muktasa	and	1	Loun instalment	ţ,	toward, Depreciation Fund	rds latio		Total expenditure	Hure		Revenue realised	e e		credit or deficit (6-5)	eredit or leit (6-5)	
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-	Azur 1817 F	1,583 6	00	2,957 14	4	 <u>-</u>	:	1	: 		' —	1,511	9		2,043	, =:		•		
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3 4			 	5,400	10 5		: :		:			6,610	:		2.683	 				
בוי ל	Farwardi		N	2,168	9		:		:			3,698 1		ස		10	_	•		
9	sht .,		0	2,627	∞ ₁∴		:		:			,				2;		•		
~	Khurdad .,		0	,	∞ ;		:		:			_	7		2,73,50	21 0		•		
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م ج	Amerdad ,,	814 2	25	3,415	7 4 10		::		::			5,954	2 2	N 30		, 0			::	
7	: :	951	•		8		:		:			1,294	~ •	æ		10	_	•		
12	: :	878 1	25	4,957	8	~ ~ ~	20,105	c	36,000	0	<u> </u>	37,941 +24,00	21 C	+			21 c	-	:	
	Total for the year 1847 F.	10,996 7	-	38,762	1 11	 	20,105	0 0	36,000	0	, 0	1,00,868	=	1 0	81.174	6	175	. 69,689	8 8	-
-	Total of previous years from the commence- ment of works	24,271 8	0	820,78	1 21		42,761	0 0			├- - -	096,48,1	ו אבי	0	68,217	10		- 66,712	10 10	6
	Grand total to the end of 1847 F. from the commencement	85,267 10	1	1 1,01,690	-	%	62,866	0	36,000	, ,	- 31	7,35,823 14	1	- - -	11 01 124,66	[1 0]		-1,36,402	27	47
	-		!	ı		-	,		_		!			-			-			

*The Depreciation Charges for 1345 and 1846 F. were transacted in 1347 F.

APPENDIX No. 19.

Statement showing the cost of Maintenance of Gulb 1rga Water Works and Revenue realised from the commencement to the end of 1347 Fash.

Pear and months Establishment Mukters Loan	1				i -	!	-		,	
Establishment Morks and instalment Depreciation Total Ravenue Credit (e-5)			Expenditur	E INCURRED	Z O		Contribution		_	Balance to
F. 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 11 1,127 8 0 758 8 1 1,127 8 0 758 8 1 1,127 8 0 758 8 1 1,127 8 0 758 8 1 1,127 8 0 7,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 0 6,128 14 1 6,128 14 1 6,128 14 1 6,128 14 6,128 14 1 6,128 14 6,128	Year a	nd months	Establishment			Loan instalment	towards Depreciation Fund	Total expenditure	Revenue realised	credit or deficit (6-3)
TF 1,127 8 0 559 4 0 559 4 0 6 2 1 0 466 5 0 6 2 2 0 466 5 0 758 8 11 7 1 107 8 0 6 2 1 0 0 46 8 0 7 1 107 8 10 100 0 7 1,06 10 0 100 0 7 1,07 8 1 0 100 0 7 1,08 10 1 0 0 0 2 367 1,09 1 0 1 0 0 0 7 1,00 1 0 0 0 7 1,00 1 0 0 0 7 1,00 1 0 0 0 7 1,00 0 0 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0 0 1,00 0 0 0		cs .		1				9	k-	oc .
559 4 0 559 4 0 66 2 0 496 5 0 66 10 2 367 3 8 8 66 10 2 367 3 8 8 66 10 2 367 3 8 8 66 10 2 373 12 4 0 672 5 3 7 681 10 8 485 12 8 681 10 8 485 12 8 681 10 8 485 12 8 681 10 8 485 12 8 681 10 8 485 12 8 681 10 8 485 12 8 681 10 8 485 12 8 681 10 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1 1,650 0 1 1,6	Azoor	1847 17	1.127 8 0	:	, 1	:	:	1,127 8 0	758 8 11	:
6 2 2 0 455 0 0 1,076 10 0 2 367 3 8 1,621 10 0 2,378 12 4 1,618 14 0 672 5 3 1,621 0 0 2,378 12 4 1,218 14 0 672 5 3 2,568 5 4 325 2 2 392 3 2 2 392 0 1 1,050 0 1 390 9 4 205 1 4 390 9 1 1,467 15 3 1,022 3 1 1 4 3,048 5 7 8.127 4 10 3,048 5 7 8.127 4 10 3,048 5 7 8.127 4 10 3,048 6 1 1,467 15 3 48,161 1 2 31,041 1 2 0 1,070 0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dad		559 4 0	:	-	•	:	559 1 0	**	:
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7,716 6 11 6,30 4 1 2 14,020 8 1 26,443 8 4 13,369 10 15,741 6 11 6,30 4 1 2 15,741 6 12 15,741 6 13 24,460 6 3‡ 31,941 12 6‡ 74,627 0 6 23,631 13 I	Amardad	:	621 8 2		4	:	•	826 6	,_	:
7,716 6 11 6,30 1 1 2 14,020 8 1 26,413 8 4 1 13,369 10 18,716 6 11 6,30 1 1 2 14,020 8 1 26,413 8 4 1 13,369 10 18,764 15 4 18,185 5 7 8,127 4 10 18,764 15 4 18,185 5 7 8,127 4 10 18,764 15 4 18,185 5 7 8,127 4 10 18,764 15 4 18,185 6 2 18,748 6 3 24,460 6 3 4 51,041 12 6 7 74,627 0 6 23,631 13 1	Shehrewar				N 10	:	•	1 438 7 4	-	•
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19,764 15 1 18,156 5 14 37,921 4 54 48,183 8 2 10,262 3 37,481 6 3 24,460 6 34 51,041 12 64 74,027 0 6 23,631 13 I	otal for 1347 F.	the year	1	1 108'9	<u> </u> = -	;	;	,		1
27,481 6 3 24,460 6 34 51,041 12 64 74,627 0 6	Fotal of from t ment of	previous years he commence: the works		١.]		:	, <u> </u>	18,183 8	£2 }
	Figure 184	otal to the end 7 F. from the ncement	27,481 6			:	:		7 4,627 0	28,631 13 114

APPENDIX No. 20.

Statement showing the cost of Maintenance of Nanded Water Works and Revenue realised from comm necment to the end of 13 UT Fusti.

į.	•	Expenditure incurred on	INCURRED ON		Contribution			Balance to
a.ģ	Year and months	Fstablishment	Works and Abwab Muktasa	Loan instalment	towards de preciation Fund	Total expenditue	Rev enue realised	credit or deficit (6-5)
H	3 3		! ! ** !	ig.	; •	1-	£	e i
-	7 7.78 T	1 048 14. 8	· es appe vormanamentaria principalism	-	† 1	1 948 14 3	1 071 12 8	i i
1 64	•		578 7 0	: :	: •	1,222 10 9	•	: -
80	Bahman "	49 0 0	9 1 909	:	:	655 1 6	1.296 8 0	
4 ×	Isfandar ,,	1.427 14 8	598 5 0 799 10 8	: :	:	1,281 5 9 4 2,227 9 4	2,568 6 898 0 0 0	•
9	Ardibehisht	, æ	8	: :	• :	01 11 929	824 10 6	
-	Khurdad		9	:	:	41	5,648 7 5	
50	Thir	0	œ.	:	:		1,946 0 3	;
۵	Amardad	=	1,000 2 0	:	:	1,661 3 10	2,906 2 0	:
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7 2	Aban	2.097 18 5	2.917.14 2	::	::	5,015 11 7	4,327 2 3	٠:
			1	-				
ytteis -regers	Total for the year 1847 F.	9,777 12 8	11,109 12 5	•	:	20,887 8 8	24,370 13 8	3,483 5 0
 	Total of previous years from the commence- ment of the work	6,550 14 0	5,320 8 9	:	:	11,080 6 9	13,720 5 2	2,630 14 5
	Grand total to the end of 1847 F. from the commencement	15.828 10 8	16.689 5 2			31,997 15 5	88.091 2 10	6.128 8 5
		- 1	.	-	1			an annual distriction of the same of the s

N.B,...Loan and depredation charges have not been accounted for 1848 and 1847 F

APPENDIX No. 21.

Statement showtng the cost of Maintenace of Seeram Water Works and Revenue realised from commencement to the end of 1347 Fasli.

instalment Depreciation expenditure realised Fund 6 7 8 1 8 728 0 0 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 7 1 189 15 0 1 189 15 0 1 189 15 0 1 189 15 0 1 189 15 0 1 189 15 0 1 189 15 0 1 189 199 0 1 189 199 0 1 192 1 8 1,858 0 1 1,858 0 1 1,858 0 1 1,858 0 1 1,858 0 1 1,858 0 1 1,858 0 1 1,858 0 1 1,858 0 1 1,858 0 1 1,858 1	1	11	Expenditure incurred on	INCURRED ON	laan	Contribution	Total	Revenue	Balance to credit or	
10 11 11 11 11 11 11 11 11 11	No. Establishment Abwab Muktasa		Works al Abwab Muktase	pu	instalment	Depreciation Fund	expenditure	realised	deficit (6-5)	
10 99 10 10 189 15 7 189 15 7 189 15 7 189 15 7 189 15 7 189 15 7 189 15 7 189 10 0 0 189 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8		4		re .	9	ì-	∞	6	- 1
10	Azur 1847 F		;		:	:	: :	::	::	
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8 1,022 1 8 1,858 0 0 64 1	Aban ,, 92 0 0	0 0 0	81	1	:		0 0 071	-	:	ı
1,922 1 8 1,858 0 0 — 64 1	Total for the year 1,000 10 10 921	1,000 10 10	921	8 8	:	:	-	0		1
5 1,922 1 8 1,858 0 0 64 1	Total of previous years from commencement of works	:	:		:	:	:	• •	:	I
	Grand total to the end of 1847 F. from the commencement 1,000 10 10 921	1,000 10 10	120		:	:		0	-	•